

I claim:

1. A method for producing a honeycomb body with channels and layers, which comprises repeating the following sequence of steps:

producing a layer with a first plastically deformable and subsequently consolidatable mass;

consolidating the layer; and

providing at least one of a measuring sensor and a heater by at least one of applying a second electrically conductive mass and inserting an electrically conductive body into the honeycomb body.

2. A method for producing a honeycomb body with channels and layers, which comprises repeating the following sequence of steps:

producing a layer with a plastically deformable and subsequently consolidatable mass;

consolidating the layer;

forming walls defining the channels through which a fluid can flow; and

providing one of the walls with at least one structure for influencing the fluid.

3. The method according to claim 1, which further comprises forming walls defining the channels through which a fluid can flow, and partially interrupting the layer forming one of the walls to produce an orifice in the one wall as a passage for the fluid from one of the channels to another.

4. The method according to claim 2, which further comprises partially interrupting the layer forming one of the walls to produce an orifice in the one wall as a passage for the fluid from one of the channels to another.

5. A honeycomb body, comprising:

ceramic walls forming channels through which a fluid can flow, said channels lying next to one another; and

at least one of at least one measuring sensor and an electrically conductive mass integrated into one of said ceramic walls.

6. The honeycomb body according to claim 4, wherein at least one of said measuring sensor and said electrically conductive mass is surrounded completely by ceramic.

7. The honeycomb body according to claim 5, wherein said measuring sensor is a temperature sensor.

8. A honeycomb body, comprising:

at least partially ceramic walls forming channels through which a fluid can flow, said channels lying next to one another; and

at least one of said walls having a structure for influencing a throughflow of the fluid.

9. The honeycomb body according to claim 8, wherein said structure is disposed at least one of longitudinally, transversely and obliquely relative to a direction of the throughflow of the fluid in the channels.

10. The honeycomb body according to claim 8, wherein said structure is one of wavy and zigzag-shaped.

11. A honeycomb body, comprising:

channels through which a fluid can flow;

a plastically deformable and subsequently consolidatable first mass being predeterminably applied and consolidated;

at least one second mass forming a layer along a section through the honeycomb body next to said first mass; and

said first mass having a property different from that of said second mass.

12. The honeycomb body according to claim 11, wherein said first mass is formed in layers.

13. The honeycomb body according to claim 11, including walls forming said channels, one of said walls having an orifice formed therein from one of said channels to another of said channels as a passage for the fluid.

14. The honeycomb body according to claim 5, wherein the honeycomb body is formed completely of ceramic.

15. The honeycomb body according to claim 8, wherein the honeycomb body is formed completely of ceramic.

16. The honeycomb body according to claim 11, wherein the honeycomb body is formed completely of ceramic.